




Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	AA	Asseline, U. et al., "Solid-Phase Preparation of 5'-3'-Heterobifunctional Oligodeoxyribonucleotides Using Modified Solid Supports", <i>Tetrahedron</i> 1992, 48, 1233-1254	
	AB	Asseline, U. et al., "Nucleic acid-binding molecules with high affinity and base sequence specificity: Intercalating agents covalently linked to oligodeoxynucleotides", <i>Proc. Natl. Acad. Sci. USA</i> 1984, 81, 3297-3301	
	AC	Atherton, E. et al., <u>The Peptides</u> , Gross and Meienhofer, Eds, Academic Press; New York, Vol. 9:1-38, 1983	
	AD	Baker, B.F., "Decapitation of a 5'-Capped Oligoribonucleotide by o-Phenanthroline: CU(II)", <i>J. Am. Chem. Soc.</i> 1993, 115, 3378-3379	
	AE	Beaucage, S. et al., "Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach", <i>Tetrahedron</i> 1992, 48, 2223-2311	
	AF	Bennett, C.F. et al., "Cationic Lipids Enhance Cellular Uptake and Activity of Phosphorothioate Antisense Oligonucleotides", <i>Molecular Pharmacology</i> 1991, 41, 1023-1033	
	AG	Betebenner, D.A., et al., "Hepatobiliary Delivery of Polyaminopolycarboxylate Chelates: Synthesis and Characterization of a Cholic Acid Conjugate of EDTA and Biodistribution and Imaging Studies with Its Indium-111 Chelate", <i>Bioconjugate Chem.</i> 1991, 2, 117-123	
	AH	Bischoff, R. et al., "Introduction of 5'-Terminal Functional Groups into Synthetic Oligonucleotides for Selective Immobilization", <i>Analy. Biochem.</i> 1987, 164, 336-344	
	AI	Blackburn, G. et al., "Studies in Phosphorylation. Part XXIX. The Synthesis of Dialkyl Phosphates from Monoalkyl Phosphonates: Direct Oxidative Esterification", <i>J. Chem. Soc.</i> 1966, 239-245	
JF	AJ	Chiang, M.-Y. et al., "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", <i>J. of Biol. Chem.</i> 1991, 266, 18162-18171	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

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JF	AK	Chollet, A., "Selective Attachment of Oligonucleotides to Interleukin-1 beta and Targeted Delivery to Cells", <i>Nucleosides & Nucleotides</i> 1990, 9, 957-966.	
	AL	Cohen, J. in <i>Oligonucleotides: Antisense Inhibitors of Gene Expression</i> , CRC Press, Inc., Boca Raton, FL, 1989	
	AM	Corey, D. et al., "Sequence-Selective Hydrolysis of Duplex DNA by an Oligonucleotide-Directed Nuclease", <i>J. Am. Chem. Soc.</i> 1989, 111, 8523-8525.	
	AN	Corey, D. et al., "Generation of a Hybrid Sequence-Specific Single-Stranded Deoxyribonuclease", <i>Science</i> 1987, 238, 1401-1403.	
	AO	Damha, M. et al., "An Improved Procedure for Derivatization of Controlled-Pore Glass Beads for Solid-Phase Oligonucleotide Synthesis", <i>Nuc. Acids Res.</i> 1990, 18, 3813-3821.	
	AP	Delgado, C. et al., "The Uses and Properties of PEG-Linked Proteins", <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> 1992, 9, 249-304.	
	AQ	Dingwall, C., et al., "Protein Import Into the Cell Nucleus", <i>Ann. Rev. Cell Biol.</i> 1986, 2, 367-90.	
	AR	DiZio, J. et al., "Progestin-Thenium Complexes: Metal-Labeled Steroids with High Receptor Binding Affinity, Potential Receptor-Directed Agents for Diagnostic of Therapy", <i>Bioconjugate Chem.</i> 1991, 2, 353-366.	
	AS	Dreyer, G. et al., "Sequence-Specific Cleavage of Single-Stranded DNA: Oligodeoxynucleotide-EDTA.Fe(II)", <i>PNAS USA</i> 1985, 82, 968-972.	
JF	AT	Egholm, M. et al., "Peptide Nucleic Acids (PNA). Oligonucleotide Analogues with an Achiral Peptide Backbone", <i>J. Am. Chem. Soc.</i> 1992, 114, 1895-1897.	
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JF	AU	Ferentz, A.E. and Verdine, G.L., "Disulfide Cross-Linked Oligonucleotides", <i>J. Am. Chem. Soc.</i> 1991, 113, 4000-4003.	
	AV	Fidanza, J. et al., "Site-Specific Labeling of DNA Sequences Containing Phosphorothioate Diesters", <i>J. Am. Chem. Soc.</i> 1992, 114, 5509-5517.	
	AW	Fidanza, J. et al., "Use of a Thiol Tether for the Site-Specific Attachment of Reporter Groups of DNA", <i>J. Org. Chem.</i> 1992, 57, 2340-2346.	
	AX	Froehler, B. et al., "Synthesis of DNA via Deoxynucleoside H-Phosphonate Intermediates", <i>Nucleic Acids Research</i> 1986, 14, 5399-5407.	
	AY	Gaur, R. et al., "A Simple Method for the Introduction of Thiol Group at 5'-Termini of Oligodeoxynucleotides", <i>Nuc. Acids Res.</i> 1989, 17, 4404.	
	AZ	Greene et al., <i>Protective Groups in Organic Synthesis</i> , 2nd edition, New York, John Wiley & Sons, pp. 178-223, 1991	
	BA	Greenfield, L. et al., "Thiol-Containing Cross-Linking Agent with Enhanced Stearic Hindrance", <i>Bioconjugate Chem.</i> 1990, 1, 400-410.	
	BB	Guerra, F.I. et al., "Synthetic 7-Glucosyl Phospholipid as a Drug Transport System", <i>Tetrahedron Letters</i> 1987, 28, 3581-3584.	
	BC	Haralambidis J., et al., "Preparation of Base-modified Nucleosides Suitable for Non-Radioactive Label Attachment and Their Incorporation Into Synthetic Oligodeoxyribonucleotides", <i>Nucleic Acids Research</i> 1987, 15, 4857-4876.	
JF	BD	Haralambidis, J. et al., "The Solid Phase Synthesis of Oligonucleotides containing a 3'-Peptide Moiety", <i>Tetrahedron Letters</i> 1987, 28, 5199-5202.	
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JF	BE	Harris, C. et al., "New Strategy for the Synthesis of Oligodeoxynucleotides Bearing Adducts at Exocyclic Amino Sites of Purine Nucleosides", <i>J. Am. Chem. Soc.</i> 1991, 113, 4328-4329.	
	BF	Iyer, R. et al., "3H-1, 2-Benzodithiole-3-one, 1,1,-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates", <i>J. Am. Chem. Soc.</i> 1990, 112, 1253-1254.	
	BG	Jablonski, E. et al., "Preparation of Oligodeoxynucleotide-Alkaline Phosphatase Conjugates and Their Use as Hybridization Probes", <i>Nucleic Acid Research</i> 1986, 14, 6115-28.	
	BH	Juby, C.D., et al., "Facile Preparation of 3'Oligonucleotide-Peptide Conjugates", <i>Tetrahedron Letters</i> 1991, 32, 879-882.	
	BI	Krieg, A.M., et al., "Uptake of Oligodeoxyribonucleotides by Lymphoid Cells Is Heterogeneous and Inducible", <i>Antisense Research and Development</i> 1991 1, 161-171.	
	BJ	Lemaitre, M. et al., "Specific Antiviral Activity of a Poly(L-lysine)-Conjugated Oligodeoxyribonucleotide Sequence Complementary to Vesicular Stomatitis Virus N Protein mRNA Initiation Site", <i>PNAS USA</i> 1987, 84, 648-652.	
	BK	Leonetti, J.P. et al, "Biological Activity of Oligonucleotide-Poly(L-lysine) Conjugates: Mechanism of Cell Uptake", <i>Bioconjugate Chem.</i> 1990, 1, 149-153.	
	BL	Letsinger, R.L., et al., "Cholesteryl-Conjugated Oligonucleotides: Synthesis, Properties, and Activity as Inhibitors of Replication of Human Immunodeficiency Virus in Cell Culture", <i>Proc. Natl. Acad. Sci. USA</i> 1989, 86, 6553-6556.	
	BM	MacMillan, A. et al, "Synthesis of Functionally Tethered Oligodeoxynucleotides by the Convertible Nucleoside Approach", <i>J. Org. Chem.</i> 1990, 55, 5931-5933.	
JF	BN	Manoharan, M. et al., "Novel Functionalization of the Sugar Moiety of Nucleic Acids For Multiple Labeling in the Minor Groove", <i>Tetra.Ltrs.</i> 32:7171-7174 (1991).	
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JF	BO	Meyer, R. et al., "Efficient, Specific Cross-Linking and Cleavage of DNA by Stable, Synthetic Complementary Oligodeoxynucleotides", <i>J. Am. Chem. Soc.</i> 1989, 111, 8517-8519.	
	BP	Miller, P.S. et al., "A New Approach to Chemotherapy Based on Molecular Biology and Nucleic Acid Chemistry: Matagen: Masking Tape for Gene Expression", <i>Anti-Cancer Drug Design</i> 1987, 2, 117-128.	
	BQ	Mirabelli, C.K. et al., "In vitro and in vivo pharmacologic activities of antisense oligonucleotides", <i>Anti-Cancer Drug Design</i> 1991, 6, 647-661.	
	BR	Mori, K. et al., "Synthesis and Properties of Novel 5'-Linked Oligos", <i>Nucleosides & Nucleotides</i> 1989, 8, 649-657.	
	BS	Nelson, P. et al., "Bifunctional Oligonucleotide Probes Synthesized Using a Novel CPG Support Are Able to Detect Single Base Pair Mutants", <i>Nuc. Acids Res.</i> 1989, 17, 7187-7194.	
	BT	Ouchi, T. et al., "Synthesis and Antitumor Activity of Poly(Ethylene Glycol)s Linked to 5-Fluorouracil Via a Urethan or Urea Bond", <i>Drug Design and Discovery</i> 1992, 9, 93-105.	
	BU	Pidgeon, C. et al., "Synthesis and Liposome Encapsulation of Antisense Oligonucleotide-Intercalator Conjugates", <i>Annals New York Academy of Sciences</i> pp. 593-596.	
	BV	Ramirez, F. et al., "Nucleotidophospholipids: Oligonucleotide Derivatives with Membrane-Recognition Groups", <i>J. Am. Chem. Soc.</i> 1982, 104, 5483-5486.	
↓	BW	Ravasio, N. et al., "Selective Hydrogenations Promoted by Copper Catalysts. 1. Chemoselectivity, Regioselectivity, and Stereoselectivity in the Hydrogenation of 3-Substituted Steroids", <i>J. Org. Chem.</i> 1991, 56, 4329-4333.	
JF	BX	Shea, R. et al., "Synthesis, Hybridization Properties and Antiviral Activity of Lipid-Oligodeoxynucleotide Conjugates", <i>Nuc. Acids Res.</i> 1990, 18, 3777-3783.	
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JF	BY	Sigman, D.S., "Chemical Nucleases", <i>Biochemistry</i> 1990, 29, 9097-9105.	
	BZ	Sinha, N.D. et al., "The Preparation and Application of Functionalized Synthetic Oligonucleotides: III. Use of H-Phosphonate Derivatives of Protected Amino-Hexanol and Mercapto-Propanol or -Hexanol", <i>Nucleic Acids Res.</i> 1988, 16, 2659-2669.	
	CA	Sluka, J. et al., "Reagents and Methods for the Solid-Phase Synthesis of Protein-EDTA for Use in Affinity Cleaving", <i>J. Am. Chem. Soc.</i> 1990, 112, 6369-6374.	
	CB	Smith-Jones, P. et al., "Antibody Labeling with Copper-67 Using the Bifunctional Macrocycle 4-((1,4,8,11-Tetraazacyclotetradec-1-yl)methyl)Benzoic Acid", <i>Bioconjugate Chem.</i> 1991, 2, 415-421.	
	CC	Solomons, T.W. et al., <i>Organic Chemistry</i> , John Wiley & Sons, New York, pp. 818-819, 1980.	
	CD	Sproat, B. et al., "The Synthesis of Protected 5'-Mercapto-2',5'-Dideoxyribonucleoside-3'-O-Phosphoramidites; Uses of 5'-Mercapto-Oligodeoxyribonucleotides", <i>Nucleic Acids Res.</i> 1987, 15, 4837-4848.	
	CE	Stein, C. et al., "Antisense Oligonucleotides as Therapeutic Agents—Is the Bullet Really Magical?" <i>Science</i> 1993, 261, 1004-1012.	
	CF	Telser, J. et al., "Synthesis and Characterization of DNA Oligomers and Duplexes Containing Covalently Attached Molecular Labels: Comparison of Biotin, Fluorescein, and Pyrene Labels by Thermodynamic and Optical Spectroscopic Measurements", <i>J. Am. Chem. Soc.</i> , 1989, 111, 6966-6976	
✓	CG	Tseng, B. et al., "Antisense Oligonucleotide Technology in the Development of Cancer Therapeutics", <i>Cancer Gene Therapy</i> 1994, 1(1), 65-71.	
JF	CH	Uhlmann, E. and A. Peyman, "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chem. Rev.</i> 1990, 90, 543-584.	
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JF	CI	Vasseur, J. et al., "Oligonucleosides: Synthesis of a Novel Methylhydroxylamine-Linked Nucleosides Dimer and its Incorporation into Antisense Sequences", <i>J. Am. Chem. Soc.</i> 1992, 114, 4006-4007.	
	CJ	Veber, D. et al., "Isonicotinyloxycarbonyl, a Novel Amino Protecting Group for Peptide Synthesis", <i>J. Org. Chem.</i> 1977, 42, 3286-3288.	
	CK	Wagner, D. et al., "Preparation and Synthetic Utility of Some Organotin Derivatives of Nucleosides", <i>J. Org. Chem.</i> 1974, 39, 24-30.	
	CL	Wychowski, C. et al., "The Intranuclear Location of Simian Virus 40 Polypeptides VP2 and VP3 Depends on a Specific Amino Acid Sequence", <i>J. Virol.</i> 1987, 61, 3862-3869.	
	CM	Yamana, K. et al., "Synthesis of Oligonucleotide Derivatives with Pyrene Group at Sugar Fragment", <i>Tetrahedron Lett.</i> 1991, 32, 6347-6350.	
	CN	Yamana, K. et al., "Synthesis and Interactive Properties of an Oligonucleotide with Anthraquinone at the Sugar Fragment", <i>Bioconjugate Chem.</i> 1990, 1, 319-324.	
	CO	Yoneda, Y. et al., "Synthetic Peptides Containing a Region of SV40 Large T-Antigen Involved in Nuclear Localization Direct the Transport of Proteins Into the Nucleus", <i>Experimental Cell Research</i> 1987, 170, 439.	
	CP	Zhang, Z. and McCormick, "Uptake of N-(4'-pyridoxyl)amines and Release of Amines by Renal Cells: A Model for Transporter-Enhanced Delivery of Bioactive Compounds", <i>PNAS USA</i> 1991, 88, 10407-10410.	
	CQ	Zuckermann, R. et al., "Site-Selective Cleavage of RNA by a Hybrid Enzyme", <i>J. Am. Chem. Soc.</i> 1988, 110, 1614-1615.	
JF	CR	Zuckermann et al., "Efficient Methods for Attachment of Thiol Specific Probes to The 3'-Ends of Synthetic Oligodeoxyribonucleotides", <i>Nucleic Acids Research</i> 1987, 15, 5305-5320.	
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JF	CS	Zon, G., "Oligonucleotide Analogues as Potential Chemotherapy Agents", <i>Pharmaceutical Research</i> 1988, 5(9), 539-549.	
	CT	Stein, C.A. and Cohen, "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review", <i>Cancer Research</i> 1988, 48, 2659-2668.	
	CU	Walder, R. and Walder, "Role of RNase H in hybrid-arrested translation by antisense oligonucleotides", <i>PNAS USA</i> 1988, 85, 5011-5015.	
	CV	Walder, J., "Antisense DNA and RNA: Progress and Prospects" <i>Genes and Development</i> 1988, 2, 502-504.	
	CW	Marcus-Sekura, "Techniques for Using Antisense Oligodeoxyribonucleotides to Study Gene Expression", <i>Anal. Biochemistry</i> 1988, 172, 289-295.	
	CX	Marcus-Sekura, C.J. et al., "Comparative inhibition of chloramphenicol acetyltransferase gene expression by antisense oligonucleotide analogues having alkyl phosphotriester, methylphosphonate and phosphorothioate linkages", <i>Nucleic Acid Research</i> 1987, 15, 5749-5763.	
	CY	Matsukura, M. et al., "Phosphorothioate analogs of oligodeoxynucleotides: Inhibitors of replication and cytopathic effects of human immunodeficiency virus", <i>PNAS USA</i> 1987, 84, 7706-7710.	
	CZ	Ikehara, M. et al., "Polynucleotides. LII. synthesis and properties of poly (2'-deox-2'-fluoroadenylic acid)", <i>Nucleic Acids Research</i> 1978, 5, 1877-1887.	
	DA	Ikehara, M. et al., "Polynucleotides. LVI. Synthesis and Properties of Poly(2'-deoxy-2'-fluoroinosinic Acid", <i>Nucleic Acids Research</i> 1978, 5, 3315-3324.	
JF	DB	Ikehara, M. et al., "A Linear Relationship Between Electronegativity of 2'-Substituents and conformation of Adenine Nucleosides", <i>Tetrahedron Letters</i> 1979, 42, 4073-4076.	
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JF	DC	Ikehara, M. et al., "Polynucleotides. L. synthesis and properties of poly (2'chloro-2'-deoxyadenylic acid) and poly (2'-bromo-2'-deoxyadenylic acid)", <i>Nucleic Acids Research</i> 1977, 4, 4249-4260.	
	DD	Eckstein, F. et al., "Polynucleotides Containing 2'-Chloro-2'-Deoxyribose", <i>Biochemistry</i> 1972, 11, 4336-4344.	
	DE	Inoue, H. et al., "Synthesis and hybridization studies on two complementary nona(2'-O-methyl) ribonucleotides", <i>Nucleic Acids Research</i> 1987, 15, 6131-6148.	
	DF	Guschlbauer, W. and Jankowski, "Nucleoside conformation is Determined by the Electronegativity of the Sugar Substituent", <i>Nucleic Acids Research</i> 1980, 8, 1421-1433.	
	DG	Shibahara, S. et al., "Inhibition of Human Immunodeficiency Virus (HIV-1) Replication by Synthetic Oligo-RNA Derivatives", <i>Nucleic Acids Research</i> 1987, 17, 239-252.	
	DH	Stein, C.A. et al., "Physicochemical properties of phosphorothioate oligodeoxynucleotides", <i>Nucleic Acids Research</i> 1988, 16, 3209-3221.	
	DI	Agarwal, K.L. and Rifina, "Synthesis and Enzymatic Properties of Deoxyribooligonucleotides Containing Methyl and Phenylphosphonate Linkages", <i>Nucleic Acids Research</i> 1979, 6, 3009-3024.	
	DJ	Agrawal, S. et al., "Oligodeoxynucleoside Phosphoramidates and Phosphorothioates as Inhibitors of Human Immunodeficiency Virus" <i>PNAS USA</i> 1988, 85, 7079-7083.	
	DK	Agris, C.H. et al., "Inhibition of Vesicular Stomatitis Virus Protein Synthesis and Infection by Sequence-Specific Oligodeoxyribonucleoside Methylphosphonates", <i>Biochemistry</i> 1986, 25, 6268-6275.	
JF	DL	Biggadike, K. et al., "Short convergent route to homochiral carbocyclic 2'-deoxynucleosides and carbocyclic ribonucleosides", <i>J. Chem. Soc. Chem. Comm.</i> , 1987, 1083-1084	
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JF	DM	Butke, G. et al., <i>Nucleic Acid Chemistry</i> , 1986, Part 3, Townsend, L.B. et al., Eds., John Wiley and Sons, New York, 149-152	
	DN	Castle, R., "Imidazo[4,5-d]pyridazines. I. Synthesis of 4,7-Disubstituted Derivatives", <i>J. Org. Chem.</i> , 1958, 23, 1534-1538	
	DO	Cazenave et al., "Enzymatic Amplification of Translation Inhibition of Rabbit β -globin mRNA Mediated by Anti-Messenger Oligodeoxynucleotides Covalently Linked to Intercalating Agents", <i>Nucl. Acids Res.</i> , 1987, 15, 4717-4736	
	DP	Constant, J.F. et al., "Heterodimeric Molecules Including Nucleic Acid Bases and 9-Aminoacridine Spectroscopic Studies, Conformations and Interactions with DNA", <i>Biochemistry</i> , 1988, 27, 3997-4003	
	DQ	Le Doan, P.L. et al., "Sequence-Targeted Chemical Modifications of Nucleic Acids by Complementary Oligonucleotides Covalently Linked to Porphyrins", <i>Nucl. Acids Res.</i> , 1987, 15, 8643-8659	
	DR	Gait, M.J., "Oligonucleotide Synthesis", IRL Press, 1985	
	DS	Jager, A. et al., "Oligonucleotide N-Alkylphosphoramidates: Synthesis and Binding to Polynucleotides", <i>Biochemistry</i> , 1988, 27, 7237-7246	
	DT	Jayaraman, K. et al., "Selective inhibition of escherichia coli protein synthesis and growth by nonionic oligonucleotides complementary to the 3' end of 16S rRNA", <i>PNAS USA</i> 1981, 78, 1537-1541.	
	DU	Jones, G. et al., "4'-substituted nucleosides. 5. hydroxymethylation of nucleoside 5'-aldehydes", <i>J. Org. Chem.</i> 1979, 44, 1309-1317	
V JF	DV	Kazimierczuk, Z. et al., "Synthesis of 2'-deoxytubercidin, 2'-deoxyadenosine, and related 2'-deoxynucleosides via novel direct stereospecific sodium salt glycosylation procedure", <i>J. Am. Chem. Soc.</i> , 1984, 106, 6379-6382	
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JF	DW	Knorre, D. and Vlassov, "Complementary-Addressed (Sequence-Specific) Modification of Nucleic Acids", <i>Prog. in Nucl. Acid Res. & Mol. Biol.</i> , 1985, 32, 291-320	
	DX	Miller, P.S. et al., "Nonionic Nucleic Acid Analogues. Synthesis and Characterization of Dideoxyribonucleoside Methylphosphonates", <i>Biochemistry</i> 1979, 18, 5134-5143	
	DY	Miller, P.S. et al., "Synthesis and Properties of Adenine and Thymine Nucleoside Alkyl Phosphotriesters, the Neutral Analogs of Dinucleoside Monophosphates", <i>J. Am. Chem. Soc.</i> , 1971, 93, 6657-6665	
	DZ	Outten, R. and Daves, "Synthetic 1-methoxybenzo[d]naphtho[1,2-b]pyran-6-one c-glycosides", <i>J. Org. Chem.</i> , 1987, 52, 5064-5066	
	EA	Revankar et al., "Synthesis and Antiviral/Antitumor of Certain 3-Seazaguanine Nucleosides and Nucleotides", <i>Journal of Medicinal Chemistry</i> 1984, 27, 1389-1396.	
	EB	Robins, M. et al, "Nucleic acid related compounds. 46. A general procedure for the efficient deoxygenation of secondary alcohols. regiospecific and stereoselective conversion of ribonucleosides to 2'-deoxynucleosides", <i>J. Am. Chem. Soc.</i> 1983, 105, 4059-4065.	
	EC	Roelen, HCPF, et al., "Synthesis of nucleic acid methylphos-phonothioates", <i>Nucleic Acid Research</i> , 1988, 16, 7633-7645.	
	ED	Suciu et al., "Synthesis of 9-(2,5-dideoxy-β-D-glycero-pent-4-enofuranosyl)adenine", <i>Carbohydr. Res.</i> , 1975, 44, 112-115	
	EE	Tidd, D.M. et al., "Evaluation of N-ras oncogene anti-sense, sense and nonsense sequence methylphosphonate oligonucleotide analogues", <i>Anti-Cancer Drug Design</i> , 1988, 3, 117-127	
JF	EF	Smith, C. et al., "Antiviral effect of an oligo(nucleoside methylphosphonate) complementary to the splice junction of herpes simplex virus type 1 immediate early pre-mRNAs 4 and 5", <i>PNAS USA</i> , 1986, 83, 2787-2791	
EXAMINER		/Jeffrey Fredman/	DATE CONSIDERED 07/18/2006

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	EG	Ruby, S.W. and Abelson, "An early hierarchic role of U1 small nuclear ribonucleoprotein in spliceosome assembly", <i>Science</i> , 1988, 242, 1028-1035	
	EH	Stufkens, D.J., "Dynamic Jahn-Teller Effect in the Excited States of SeCl_6^{2-} , SeBr_6^{2-} , TeCl_6^{2-} and TeBr_6^{2-} ", <i>Rec. Trav. Chim.</i> , 1970, 89, 1185-1201	
	EI	Sigman, D., "Nuclease Activity of 1,10-Phenanthroline-Copper Ion", <i>Accounts of Chemical Research</i> , 1986, 19, 180-186	
	EJ	Weissberger, ed., "The Chemistry of Heterocyclic Compounds, Imidazole and Derivatives", <i>Part 1</i> , Interscience, N.Y., 1953	
	EK	Yeung, A. et al., "Photoreactives and thermal properties of psoralen cross-links", <i>Biochemistry</i> , 1988, 27, 3204-3210	
	EL	Zon, G., "Synthesis of backbone-modified DNA analogues for biological applications", <i>Journal of Protein Chemistry</i> , 1987, 6, 131-145	
	EM	Van der Krol, A.R. et al., "Modulation of Eukaryotic Gene Expression by Complementary RNA or DNA Sequences", <i>BioTechniques</i> , 1988, 6, 958-973	
	EN	Loose-Mitchell, D., "Antisense Nucleic Acids as a Potential Class of Pharmaceutical Agents", <i>TIPS</i> , 1988, 9, 45-47	
	EO	Letsinger, R. et al., "Effects of pendant groups at phosphorus on binding properties of d-ApA analogues", <i>Nucleic Acids Research</i> , 1986, 14, 3487-3499	
JF	EP	Bhat, C., "2-Deoxy-3,5-di-O-p-toluoyl-D-erythro-pentosyl Chloride" in <i>Synthetic Procedures in Nucleic Acid Chemistry</i> , 1968, Vol. 1, Zorbach, ed., Interscience Publ., New York, 521-522	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	EQ	Nair V., "Development of Methodologies for the Strategic Modification of Purine Ribonucleoside Systems", <i>Nucleosides and Nucleotides</i> , 1989, 8, 699-708	
	ER	Cook et al., "Synthesis and Antiviral and Enzymatic Studies of Certain 3-Deazaguanines and Their Imidazolecarboxamide Precursors", <i>Journal of Medicinal Chemistry</i> , 1978, 21, 1212-1218	
	ES	Ikehara, M. et al., "Studies of Nucleosides and Nucleotides-LXXIV ¹ ", <i>Tetrahedron</i> , 1978, 34, 1133-1138	
	ET	Ikehara, M. et al., "Studies of Nucleosides and Nucleotides-LXV ¹ ", <i>Tetrahedron</i> , 1975, 31, 1369-1372	
	EU	Ikehara, M., "Studies of Nucleosides and Nucleotides-LXXXII. ¹) cyclonucleosides. (39). ²) synthesis and properties of 2'-halogen-2'-deoxyadenosines", <i>Chemistry and Pharmaceutical Bulletin</i> , 1978, 26, 2449-2453	
	EV	Ikehara, M., "Studies of Nucleosides and Nucleotides-LXXIX.1), Purine cyclonucleosides. (37). The total synthesis of an antibiotic 2'-amino-2'-deoxyguanosine ²)", <i>Chemistry and Pharmaceutical Bulletin</i> , 1978, 26, 240-244	
	EW	Ikehara, M., "Purine 8-Cyclonucleosides", <i>Accounts of Chemical Research</i> , 1969, 2, 47-53	
	EX	Ranganathan, R., "Modification of the 2'-Position of Purine Nucleosides: Synthesis of 2'-a-Substituted-2'-Deoxyadenosine Analogs", <i>Tetrahedron Letters</i> , 1977, 15, 1291-1294	
✓	EY	Markiewicz, W. and Wiewiorowski, "Nucleic Acid Chemistry", Part 3, pp. 229-231, Townsend, L. and Tipson, eds., J. Wiley and Sons, New York, 1986	
JF	EZ	Schmidt, Richard R. et al., "C-Glycosides from O-Glycosyl Trichloroacetimidates" <i>Tetrahedron-Letters</i> , 1982, 23, 409-412	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US-C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	FA	Fox, J. et al., "Nucleosides. XVIII. Synthesis of 2'-Fluorothymidine, 2'-Fluorodeoxyuridine, and Other 2'-Halogeno-2'-Deoxy Nucleosides", <i>Journal of Organic Chemistry</i> , 1964, 29, 558-564	
	FB	Jarvi, E.T. et al., "Synthesis and biological evaluation of dideoxynucleosides containing a difluoromethylene unit", <i>Nucleosides and Nucleotides</i> , 1989, 8, 1111-1114	
	FC	Hertel, L.W. et al., "Synthesis of 2-Deoxy-2,2-difluoro-D-ribose and 2-Deoxy-2,2-difluoro-D-ribofuranosyl Nucleosides", <i>Journal of Organic Chemistry</i> , 1988, 53, 2406-2409	
	FD	Chladek, S. et al., "Facile Synthesis of 2'-Amino-2'-Deoxyadenosine", <i>Journal of Carbohydrates, Nucleosides & Nucleotides</i> , 1980, 7, 63-75	
	FE	Parkes, K. and Taylor, "A Short Synthesis of 3'-Cyano-3'-Deoxythymidine", <i>Tetrahedron Letters</i> , 1988, 29, 2995-2996	
	FF	De las Heras, F. et al., "3'-C-Cyano-3'-Deoxythymidine", <i>Tetrahedron Letters</i> , 1988, 29, 941-944	
	FG	Pfitzner, K.E. and Moffatt, J.G., "The synthesis of nucleoside-5' aldehydes", <i>Journal of American Chemical Society</i> , 1963, 85, 3027	
	FH	Youssefyeh, R. et al., "Synthetic routes to 4'-hydroxymethylnucleosides", <i>Tetrahedron Letters</i> , 1977, 435-438	
✓	FI	Balaban, I. and Pyman, "Bromo-Derivatives of Glyoxaline", <i>Journal of Chemical Society</i> , 1922, 121, 947-958	
JF	FJ	Mitsunobu, "The Use of Diethyl Azodicarboxylate and Triphenylphosphine in Synthesis and Transformation of Natural Products", <i>Synthesis</i> , 1981, 1-28	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS 4380US.C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	FK	Daves, G. and Cheng, "The Chemistry and Biochemistry of C-Nucleosides", <i>Progress in Medicinal Chemistry</i> , 1976, 13, 304-349	
	FL	Arnott and Hukins, "Optimized Parameters for A-DNA and B-DNA" <i>Biochemical and Biophysical Research Communication</i> , 1970, 47, 1504-1510	
	FM	Caruthers, M., "Oligonucleotides. Antisense Inhibitors of Gene Expression", Cohen, J.S., ed., pp. 7-24, CRC Press, Inc., Boca Raton, FL 1989	
	FN	Beaucage, S. et al., "Deoxynucleoside phosphoramidites -- A new class of key intermediates for deoxypolynucleotide synthesis", <i>Tetrahedron Letters</i> , 1981, 22, 1859-1862	
	FO	Gaffney, B. and Jones, "A New Strategy for the Protection of Deoxyguanosine During Oligonucleotide Synthesis", <i>Tetrahedron Letters</i> , 1982, 23, 2257-2260	
	FP	Seela, F. and Kehne, "Palindromic Octa- and Dodecanucleotides Containing 2'-Deoxytubercidin: Synthesis, Hairpin Formation, and Recognition by the Endodeoxyribonuclease EcoRI", <i>Biochemistry</i> , 1987, 26, 2233-2238	
	FQ	Ikehara, M. et al., "Improved Synthesis of 2'-Fluoro-2'-Deoxyadenosine and Synthesis and Carbon-13 NMR Spectrum of Its 3',5'-Cyclic Phosphate Derivative", <i>Nucleosides and Nucleotides</i> , 1983, 2, 373-385	
	FR	Jones, R.A., "Transient protection: Efficient one-flask synthesis of protected deoxynucleosides", <i>J. Am. Chem. Soc.</i> , 1982, 104, 1316-1319	
	FS	Ogilvie, K., "Solution and Solid Phase Chemical Synthesis of Arabinonucleotides", <i>Can. J. Chem.</i> , 1989, 67, 831-839	
✓ JF	FT	Reese, C. et al., "4'(1,2,4-Triazol-1-yl)-and 4'(3'Nitro'1,2,4-triazol-1-yl)-1-(β-D-2,3,5-tri-O-acetyl-arabinofuranosyl)pyrimidin-2(1H)-ones. Valuable Intermediates in the Synthesis of Derivatives of 1-(β-D-Arabinofuranosyl)cytosine (Ara-C)", <i>J. Chem. Soc. Perkin Trans I</i> , 1982, 1171-1176	
EXAMINER		/Jeffrey Fredman/	DATE CONSIDERED 07/18/2006

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US-C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	FU	Bhat, V. et al., "A Simple and Convenient Method for the Selective N-Acylation of Cytosine Nucleosides", <i>Nucleosides and Nucleotides</i> , 1989, 8, 179-183	
	FV	Ikehara, M. et al., "Studies of Nucleosides and Nucleotides-LXXXVII.1), Purine cyclonucleosides. XLII. synthesis of 2'deoxy-2'fluorofunao sine", <i>Chemical and Pharmaceutical Bulletin</i> , 1981, 29, 1034-1038	
	FW	Ikehara, M. et al, "Studies of Nucleosides and Nucleotides-LXXXIX., Purine cyclonucleosides. (43). synthesis and properties of 2'halogen-2'-deoxyguanosines1)", <i>Chemical and Pharmaceutical Bulletin</i> , 1981, 29, 3281-3285	
	FX	Robins, M., "2'- and 3'-Ketonucleosides and their <i>Arabino</i> and <i>Xylo</i> Reduction Products" <i>Tetrahedron</i> , 1984, 40, 125-135	
	FY	Ogilvie, K., "Prevention of Chain Cleavage in the Chemical Synthesis of 2'-silylated Oligoribonucleotides", <i>Nucleic Acids Research</i> , 1989 17, 3501-3517	
	FZ	Chen, Y. et al., "Studies on Fluoroalkylation and Fluroalkoxylation. Part 33. Direct Trifluoromethylation of Aryl Halides with Fluorosulphonyldifluoromethyl Iodide in the Presence of Copper: an Electron Transfer Induced Process", <i>J. Chem. Soc. Perkin Transactions</i> , 1989, 2385-2387	
	GA	Sproat, B.S. et al., "New synthetic routes to protected purine 2'-O-methylriboside-3'-O-phosphoramidites using a novel alkylation procedure", <i>Nucleic Acids Research</i> 1990, 18, 41-49.	
	GB	Freskos, J., "Synthesis of 2'Deoxypyrimidine Nucleosides Via Copper (I) Iodide Catalysis", <i>Nucleosides and Nucleotides</i> 1989, 8, 1075-1076.	
	GC	Sproat, B. et al., "Highly Efficient Chemical Synthesis of 2'-O-methyloligoribonucleotides and Tetrabiotinylated Derivatives; Novel Probes that are Resistant to Degradation by RNA or DNA Specific Nucleases", <i>Nucleic Acids Research</i> 1989, 17, 3373-3386.	
JF	GD	Iyer, R., Beaucage, Serge L. et al., "3H-1,2-benzodithiole-3-one 1,1-dioxide as an improved sulfurizing reagent in the solid-phase synthesis of oligodeoxyribonucleoside phosphorothioates", <i>Journal of American Chemical Society</i> 1990, 112, 1253-1255.	
EXAMINER		/Jeffrey Fredman/	DATE CONSIDERED 07/18/2006

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US-C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	GE	Koole, L. et al., "Synthesis of phosphate-methylated DNA fragments using 9-fluorenylmethoxycarbonyl as transient base protecting group", <i>Journal of Organic Chemistry</i> 1989, 54, 1657-1664.	
	GF	Graham, M.J. et al., "Tritium Labeling of Antisense Oligonucleotides by Exchange with Tritiated Water", <i>Nucleic Acids Res.</i> 1993, 21(16), 3737-3743.	
	GG	Daves, G. and Cheng, <i>Progress in Medicinal Chemistry</i> 1978, 14, 304-349.	
	GH	Englisch, et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors" <i>Angew. Chem. Int. Ed. Eng.</i> 1991, 30, 613	
	GI	Goodchild, "Conjugates of Oligonucleotides and Modified Oligonucleotides: A Review of Their Synthesis and Properties" <i>Bioconjugate Chemistry</i> 1990, 1, 165	
	GJ	Mitchell, et al., "Boron trifluoride methanol complex as a non-depurinating detritylating agent in DNA synthesis", <i>Nucl. Acids Res.</i> , 1990, 18, 5321	
	GK	Manoharan, et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides" <i>Database Elsevier Science Publishers</i> 1992 660, 306 (abstract)	
	GL	Schwartz et al., "The DNA by Acetylaminofluorene residues and by apurinic sites", <i>J. Mol. Biol.</i> , 1989, 207, 445-450	
	GM	Adams, "Intercellular Adhesion Molecule 1 on Liver Allografts During Rejection", <i>Lancet</i> , November 11, 1989, 1122-1125	
JF	GN	Bevilacqua et al., "Endothelial Leukocyte Adhesion Molecule 1: An Inducible Receptor for Neutrophils related to Complement Regulatory Proteins and Lectins", <i>Science</i> , 1989, 243, 1160-1165	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	GO	Bevilacqua et al., "Identification of an inducible endothelial-leukocyte adhesion molecule", <i>Proc. Natl. Acad. Sci.</i> , 1987, 84, 9238-9242	
	GP	Cosimi et al., "In Vivo Effects of Monoclonal Antibody to ICAM-1 (CD54) in Nonhuman Primates with Renal Allografts", <i>J. Immunol.</i> , 1990, 144, 4604-4612	
	GQ	Dustin et al., "Lymphocyte Function-associated Antigen-1 (LFA-1) Interaction with Intercellular Adhesion Molecule-1 (ICAM-1) is One of At Least Three Mechanisms for Lymphocyte Adhesion to Cultured Endothelial Cells", <i>J. Cell Biol.</i> , 1987, 107, 321-331	
	GR	Faull et al., "Tubular Expression of Intercellular Adhesion Molecule-1 During Renal Allograft Rejection", <i>Transplantation</i> , 1989, 48, 226-230	
	GS	Frohman et al., "The Induction of Intercellular Adhesion Molecule-1 (ICAM-1) Expression on Human Fetal Astrocytes by interferon- γ , tumor necrosis factor α , lymphotoxin, and interleukin-1: relevance to intracerebral antigen presentation", <i>J. Neuroimmunol.</i> , 1989, 23, 117-124	
	GT	Harlan, J.M. et al., "Leukocyte-Endothelial Interactions", <i>Blood</i> , 1985, 65, 513-525	
	GU	Isobe et al., "Specific Acceptance of Cardiac Allograft After Treatment with Antibodies to ICAM-1 and LFA-1", <i>Science</i> , 1992, 255, 1125-1127	
	GV	Isobe et al., "Early Detection of Rejection and Assessment of Cyclosporine therapy by ^{111}In Antimyosin Imaging in Mouse Heart Allografts", <i>Circulation</i> , 1991, 84, 1246-1255	
	GW	Nielsen, P.E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <i>Science</i> , 1991, 254, 1497-1500	
↓ JF	GX	Osborn et al., "Direct Expression Cloning of Vascular Cell Adhesion Molecule 1, a Cytokine-Induced Endothelial Protein that Binds of Lymphocytes", <i>Cell</i> , 1989, 59, 1203-1211	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	GY	Rice et al., "An Inducible Endothelial Cell Surface Glycoprotein Mediates Melanoma Adhesion", <i>Science</i> , 1989, 246, 1303-1306	
	GZ	Rice et al., "Inducible Cell Adhesion Molecule-110 (INCAM-110) is an Endothelial Receptor for Lymphocytes", <i>J. Exp. Med.</i> , 1990, 171, 1369-1374	
	HA	Staunton, D.E. et al., "Primary Structure of ICAM-1 Demonstrates Interaction between Members of the Immunoglobulin and Integrin Supergene Families", <i>Cell</i> , 1988, 52, 925-933	
	HB	Wellicome et al., "A Monoclonal Antibody that Detects A Novel Antigen on Endothelial Cells is Induced by Tumor Necrosis Factor, IL-1, or Lipopolysaccharide", <i>J. Immunol.</i> , 1990, 144, 2558-2565	
	HC	Zucker, M. et al., "On Finding All Suboptimal Foldings of an RNA Molecule", <i>Science</i> , 1989, 244, 48-52	
	HD	Petersheim, M. et al., "Base-Stacking and Base-Pairing Contributions to Helix Stability: Thermodynamics of Double Helix Formation with CCGG, CCGGp, CCGGAp, ACCGGp, CCGGUp, and ACCGGUp", <i>Biochem.</i> , 1983, 22, 256-263	
	HE	Akhtar et al., "Cellular uptake and intracellular fate of antisense oligonucleotides", <i>Trends in Cell Biol.</i> , 1992, 2, 139	
	HF	Alahari et al., The fission yeast <i>prp4⁺</i> gene involved in Pre-mRNA splicing codes for a predicted serine/threonine kinase and is essential for growth", <i>Nucl. Acids Res.</i> , 1993, 21, 4079	
	HG	Bennett et al., "Cationic Lipids Enhance Cellular Uptake and Activity of Phosphorothioate Antisense Oligonucleotides", <i>Mol. Pharm.</i> , 1992, 41, 1023	
JF	HH	Berkow et al., Eds., <i>The Merck Manual of Diagnosis and Therapy</i> , 1987, 15th Ed., Rahay, NJ, 1206-1228	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS 4380US C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	HI	Bradley et al., "P-glycoprotein, multidrug resistance and tumor progression", <i>Cancer Metastasis Rev.</i> , 1994, 13, 223	
	HJ	Brigstock et al., "Species-Specific High Molecular Weight Forms of Basic Fibroblast Growth Factor", <i>Growth Factors</i> , 1990, 4, 45	
	HK	Chabner et al., "Reversal of Multidrug Resistance", <i>J. Clin. Oncol.</i> , 1991, 9, 4	
	HL	Chen et al., "Genomic Organization of the Human Multidrug Resistance (MDR1) Gene and Origin of P-glycoproteins", <i>J. Biol. Chem.</i> , 1990, 265, 506	
	HM	Corrias et al., "An Oligomer Complementary to the 5' End Region of MDR1 Gene Decreases Resistance to Doxorubicin of Human Adenocarcinoma-Resistant Cells", <i>Anticancer Res.</i> , 1992, 12, 1431	
	HN	Crooke et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", <i>J. Pharmacol. Exp. Ther.</i> , 1996, 277, 923	
	HO	Dean et al., "Inhibition of Protein Kinase C- α Expression in Human A549 Cells by Antisense Oligonucleotides Inhibits Induction of Intercellular Adhesion Molecule 1 (ICAM-1) mRNA by Phorbol Esters", <i>J. Biol. Chem.</i> , 1994, 269, 16416	
	HP	DeVirgilio et al., "Cloning and Disruption of a Gene Required for Growth on Acetate but not on Ethanol: the Acetyl-Coenzyme A Synthetase Gene of <i>Saccharomyces cerevisiae</i> ", <i>Yeast</i> , 1992, 8, 1043	
	HQ	Efferth et al., "Modulation of P-Glycoprotein-Mediated Multidrug Resistance by Monoclonal Antibodies, Immunotoxins of Antisense Oligodeoxynucleotides in Kidney Carcinoma and Normal Kidney Cells", <i>Oncology</i> , 1993, 50, 303	
JF	HR	French et al., "Expression of Two Related Nonstructural Proteins of Bluetongue Virus (BTV) Type 10 in Insect Cells by a Recombinant Baculovirus: Production of Polyclonal Ascitic Fluid and Characterization of the Gene Product in BTV-Infected BHK Cells", <i>J. Virology</i> , 1989, 63, 3270	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-438003-C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	HS	Gao et al., "Cloning and Characterization of a Mouse Gene with Homology to the Human von Hippel-Lindau Disease Tumor Suppressor Gene: Implications for the Potential Organization of the Human von Hippel-Lindau Disease Gene", <i>Cancer Res.</i> , 1995, 55, 743.	
	HT	Gelbert et al., "Analysis of GPT Activity in Mammalian Cells with a Chromosomally Integrated Shuttle Vector Containing Altered gpt Genes", <i>Cell. Mol. Genet.</i> , 1990, 16, 173	
	HU	Gold et al., <i>Escherichia coli and Salmonella typhimurium: Cellular and Molecular Biology</i> , 1987, Vol. 2, Neidhardt et al., eds., American Society for Microbiology, Washington, D.C., 1303	
	HV	Gottesman et al., "The Multidrug Transporter, a Double-edged Sword", <i>J. Biol. Chem.</i> , 1988, 263, 12163	
	HW	Ho et al., "Potent Antisense oligonucleotides to the human multidrug resistance-1 mRNA are rationally selected by mapping RNA accessible sites with oligonucleotide libraries", <i>Nucl. Acids Res.</i> , 1996, 24, 1901	
	HX	Ishida et al., "Multidrug Resistance in Cultured Human Leukemia and Lymphoma Cell Lines Detected by a Monoclonal Antibody, MRK16", <i>Jpn. J. Cancer Res.</i> , 1989, 80, 1006	
	HY	Kabanov, A.V., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <i>FEBS Letts.</i> , 1990, 259, 327-330	
	HZ	Kanagasundaram, V. et al., "Isolation and Characterization of the gene encoding gluconolactonase from <i>Zymomonas mobilis</i> ", <i>Biochimica et Biophysica Acta</i> , 1992, 1171, 198-200	
	IA	Kane et al., "A new vector using the human multidrug resistance gene as a selectable marker enables overexpression of foreign genes in eukaryotic cells", <i>Gene</i> , 1989, 84, 439	
JF	IB	Kaji et al., "Structurally Distinct MDR Modulators Show Specific Patterns of Reversal Against P-Glycoproteins Bearing Unique Mutations at Serine ^{939/941} ", <i>Biochemistry</i> , 1994, 33, 5041	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified		Docket No. ISIC0006-102 (ISIS-4380US-C1)	Serial No. 10/780,439
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Phillip D. Cook et al.	
U.S. Department of Commerce Patent and Trademark Office		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	IC	Kiehntopf et al., "Ribozyme-mediated cleavage of the MDR-1 transcript restores chemosensitivity in previously resistant cancer cells", <i>EMBO J.</i> , 1994, 13, 4645	
	ID	Kobayashi et al., "Reversal of Drug Sensitivity in Multidrug-Resistant Tumor Cells by an MDR1 (PG1) Ribozyme", <i>Cancer Res.</i> , 1994, 54, 1271	
	IE	Krieg, A.M. et al., "Modification of antisense phosphodiester oligonucleotides by a 5' cholesteryl moiety increases cellular association and improves efficacy", <i>Proc. Nat'l. Acad. Sci.</i> , 1993, 90, 1048-1052	
	IF	MacKellar, C. et al., "Synthesis and physical properties of anti-HIV antisense oligonucleotides bearing terminal lipophilic groups", <i>Nucl. Acids Res.</i> , 1992, 20, 3411-3417	
	IG	Manoharan, M. et al., "Lipidic Nucleic Acids", <i>Tetrahedron Letts.</i> , 1995, 36, 3651-3654	
	IH	Manoharan, M. et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications", <i>Bioorg. Med. Chem. Letts.</i> , 1993, 3, 2765-2770	
	IJ	Manoharan M. et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications", <i>Bioorganic Med. Chem. Letts.</i> , 1994, 4, 1053-1060	
	IK	Manoharan M. et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", <i>Nucleosides and Nucleotides</i> , 1995, 14, 969-973	
	IL	Martin, P., "Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helvetica Chemica Acta</i> , 1995, 78, 486-504	
JF	IM	Markussen et al., "Translational control of <i>oskar</i> generates a Short OSK, the isoform that induces pole plasm assembly", <i>Development</i> , 1995, 121, 3723	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS 4380US.C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	IN	McDermott et al., "Structure and lens expression of the gene encoding chicken β A3/A1-crystallin", <i>Gene</i> , 1992, 117, 193	
	IO	Mishra, R.K. et al., "Improved leishmanicidal effect of phosphorotioate antisense oligonucleotides by LDL-mediated delivery", <i>Biochim. Et Biophysica</i> , 1995, 1264, 229-237	
	IP	Monaco, L. et al., "Structure of Two Rat Genes Coding for Closely Related Rolipram-sensitive cAMP Phosphodiesterases", <i>J. Biol. Chem.</i> , 1994, 269, 347-357	
	IQ	Oberhauser, B. et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol", <i>Nucl. Acids Res.</i> , 1992, 20, 533-538	
	IR	Olsen, S.R. et al., "Inhibition of Protein Kinase-A by Overexpression of the Cloned Human Protein Kinase Inhibitor", <i>Mol. Endocrinol.</i> , 1991, 5, 1246-1256	
	IS	Palfner et al., "Improvement of Hammerhead Ribozymes Cleaving mdr-1 RNA", <i>Biol. Chem. Hoppe-Seyler</i> , 1995, 376, 289	
	IT	Perri et al., "Interactions of Plasmid-encoded Replication Initiation Proteins with the Origin of DNA Replication in the Broad Host Range Plasmid RK2", <i>J. Biol. Chem.</i> , 1991, 266, 12536	
	IU	Pushpa-Reka, T.R. et al., "Rat Phospholipid-hydroperoxide Glutathione Peroxidase", <i>J. Biol. Chem.</i> , 1995, 270, 26993-26999	
	IV	Richert et al., "Stability and Covalent Modification of P-Glycoprotein in Multidrug-Resistant KB Cells", <i>Biochemistry</i> , 1988, 28, 7607	
JF	IW	Rogers, R.P. et al., "Alternative splicing dictates translational start in Epstein-Barr virus transcripts", <i>EMBO J.</i> , 1990, 9, 2273-2277	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	IX	Roninson, "The Role of the MDR1 P-Glycoprotein Gene in Multidrug Resistance In Vitro and In Vivo", <i>Biochem. Pharmacol.</i> , 1992, 43, 95	
	IY	Saison-Behmoaras, T. et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", <i>EMBO J.</i> , 1991, 10, 1111-1118	
	IZ	Sambrook et al. (eds.), "Preparation of Radiolabeled DNA and RNA Probes", <i>Molecular Cloning: A Laboratory Manual</i> , 1989, 2d. Ed., Chapter 10, 10.59	
	JA	Saul, D.J. et al., "celB, a Gene Coding for a Bifunctional Cellulase from the Extreme Thermophile <i>Caldocellum saccharolyticum</i> ", <i>Applied & Env. Microbiol.</i> , 1990, 56, 3117-3124	
	JB	Scanlon et al., "Ribozyme-mediated reversal of the multidrug-resistant phenotype", <i>Proc. Natl. Acad. Sci.</i> , 1994, 91, 11123	
	JC	Shoji et al., "Mechanism of cellular uptake of modified oligodeoxynucleotides containing methylphosphonate linkages", <i>Nucl. Acids Res.</i> , 1991, 19, 5543	
	JD	Svinarchuk, F.P. et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups", <i>Biochimie</i> , 1993, 79, 49-54	
	JE	Thierry et al., "Overcoming multidrug resistance in human tumor cells using free and liposomally encapsulated antisense oligodeoxynucleotides", <i>Biochem. Biophys. Res. Comm.</i> , 1993, 190, 952	
↓	JF	Twentyman et al., "A Comparison of Thodamine 123 Accumulation and Efflux in Cells with P-Glycoprotein-mediated and MRP-associated Multidrug Resistance Phenotypes", <i>Eur. J. Cancer</i> , 1994, 30, 1360	
JF	JG	Vasanthakumar et al., "Modulation of Drug Resistance in Daunorubicin Resistant Subline with Oligonucleoside Methylphosphonates", <i>Cancer Comm.</i> , 1989, 1, 225	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISTC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	JH	Yaoita, Y. et al., "Xenopus laevis α and β thyroid hormone receptor", <i>Proc. Natl. Acad. Sci.</i> , 1990, 87, 7090-7094	
	JI	Weiss, R., "Upping the Antisense Ante: Scientists bet on profits from reverse genetics", <i>Science News</i> , 1991, 139, 108-109	
	JJ	Westermann, P. et al., "Inhibition of expression of SV40 virus large T-antigen by antisense oligodeoxyribonucleotides", <i>Biomed. Biochim. Acta.</i> , 1989, 48, 85-93	
	JK	Tseng, B.Y. et al., "Antisense oligonucleotide technology in the development of cancer therapeutics", <i>Cancer Gene Therapeutics</i> , 1994, 1, 65-71	
	JL	Uhlmann, E. et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chem. Reviews</i> , 1990, 90, 544-584	
	JM	James, W., "Towards gene-inhibition therapy: a review of progress and prospects in the field of antiviral antisense nucleic acids and ribozymes", <i>Antiviral Chem. & Chemotherapy</i> , 1991, 2, 191-214	
	JN	Chen et al., "Mechanism of Action of the Novel Anticancer Agent 6-Fluoro-2-(2'-fluoro-1,1'-biphenyl-4-yl)-3methyl-4quinolinecarboxylic Acid Sodium Salt (NSC 368390): Inhibition of <i>de Novo</i> Pyrimidine Nucleotide Biosynthesis", <i>Cancer Res.</i> , 1986, 46, 5014-5019	
	JO	Chiang, M-Y. et al., "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", <i>J. Biol. Chem.</i> , 1991, 266, 18162-18171	
	JP	Chou, T-C et al., "Quantitative Analysis of Dose-Effect Relationships: The Combined Effects of Multiple Drugs or Enzyme Inhibitors", <i>Adv. Enz. Regul.</i> , 1984, 22, 27-55	
JF	JQ	Haug et al., "A Phase I Trial of Immunosuppression with Anti-ICAM-1 (CD54) mAb in Renal Allograft Recipients", <i>Transplantation</i> , 1993, 55, 766-773	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US-G1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
08/344,155 JF	JR	Kahan, B.D. et al., "The Synergistic Interaction is vitro and in vivo of Brequinar Sodium with Cyclosporine or Rapamycin Alone and in Triple Combination", <i>Transplantation</i> , 1993, 55, 894-900	
	JS	Kitajima et al., "Ablation of Transplanted HTLV-I Tax-Transformed Tumors in Mice by Antisense Inhibition of NF- κ B", <i>Science</i> , 1992, 258, 1792-1795	
	JT	Liu, J. et al., "Calcineurin Is a Common Target of Cyclophilin-Cyclosporin A and FKBP-FK506 Complexes", <i>Cell</i> , 1991, 66, 807-815	
	JU	Monaco et al., "Studies on Heterologous Anti-Lymphocyte serum in Mice", <i>J. Immunol.</i> , 1966, 96, 229-238	
	JV	Morice et al., "Rapamycin-induced Inhibition of p34 ^{cdc2} Kinase Activation is Associated with G ₁ S-Phase Growth Arrest in Lymphocytes", <i>J. Biol. Chem.</i> , 1993, 268, 3734-3738	
	JW	Nickoloff et al., "Accessory Cell Function of Keratinocytes for Superantigens", <i>J. Immunol.</i> , 1993, 150, 2148-2159	
	JX	Simons et al., "Antisense c-myb oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo", <i>Nature</i> , 1992, 359, 67-70	
	JY	Anderson et al., "Leukocyte Adhesion Deficiency: An Inherited Defect in the Mac-1, LFA-1, and p150,95 Glycoproteins", <i>Ann. Rev. Med.</i> , 1987, 38, 175-194	
	JZ	Campbell et al., "Intercellular adhesion molecule 1 is induced on isolated endocrine islet cells by cytokines but not by retrovirus infection", <i>Proc. Natl. Acad. Sci.</i> , 1989, 86, 4282-4286	
✓	KA	Cooney, M. et al., "Site-Specific Oligonucleotide Binding Represses Transcription of the Human c-myc Gene in Vitro", <i>Science</i> , 1988, 241, 456-459	
JF	KB	Eder, P.S. et al., "Substrate Spcificity and Kinetics of Degradation of Antisense Oligonucleotides by a 3' Exonuclease in Plasma", <i>Antisense Res. & Dev.</i> , 1991, 1, 141-151	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US-C1)	Serial No. 10/780,439
		Applicant Phillip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	KC	Gibbs, W.W. et al., "State of Shock: Sepsis can be fatal to firms as wall as to patients", <i>Scientific American</i> , October 1994, 133-134	
	KD	Goodchild, J. et al., "Inhibition of human immunodeficiency virus replication by antisense oligodeoxynucleotides", <i>Proc. Natl. Acad. Sci.</i> , 1988, 85, 5507-5511	
	KE	Greve et al., "The Major Human Rhinovirus Receptor is ICAM-1", <i>Cell</i> , 1989, 56, 839-847	
	KF	Griffiths et al., "Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1) Expression Preceedes Derman T Lymphocyte Infiltration in Allergic Contact Dermatitis (<i>Rhus dermatitis</i>)", <i>Am. J. Pathology.</i> , 1989, 135, 1045-1053	
	KG	Hale et al., "Immunohistologic Analysis of the Distribution of Cell Adhesion Molecules within the Inflammatory Synovial Microenvironment", <i>Arth. Rheum.</i> , 1989, 32, 22-30	
	KH	Ho et al., "Treatment of severe lichen planus with cyclosporine", <i>J. Am. Acad. Dermatol.</i> , 1990, 22, 64-68	
	KI	Kibler-Herzog, L. et al., "Duplex stabilities of phophorothioate, methylphosphonate, and RNA analogs of two DNA 14-mers", <i>Nucl. Acids Res.</i> , 1991, 19, 2979-2986	
	KJ	Lisby et al., "Intercellular adhesion molecule-1 (ICAM-1) expression correlated to inflammation", <i>Br. J. Dermatol.</i> , 1989, 120, 479-484	
	KK	Marlin et al., "A soluble form of intercellular adhesion molecule-1 inhibits rhinovirus infection", <i>Nature</i> , 1990, 344, 70-72	
V JF	KL	Miller, P.S. et al., "A New approach to chemotherapy based on molecular biology and nucleic acid chemistry: Matagen (masking tape for gene expression)", <i>Anti-Cancer Drug Des.</i> , 1987, 2, 117-128	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (TSIS-4380US C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	KM	Miller, D.E. et al., "Cytokine Modulation of Intercellular Adhesion Molecule-1 Surface Expression of Human Melanoma Cells; Correlation with Adhesion of Peripheral Blood Leukocytes", <i>Proc. Am. Assoc. Cancer Res.</i> , 1990, 31, 60, Abstract 353.	
	KN	Mirabelli, C. et al., "In vitro and in vivo pharmacologic activities of antisense oligonucleotides", <i>Anti-Cancer Drug Des.</i> , 1991, 6, 647-661	
	KO	Okayasu, I. et al., "A Novel Method in the Induction of Reliable Experimental Acute and Chronic Ulcerative Colitis in Mice", <i>Gastroenterology</i> , 1990, 98, 694-702	
	KP	Rice, G.E. et al., "An Inducible Endothelial Cell Surface Glycoprotein Mediates Melanoma Adhesion", <i>Science</i> , 1989, 246, 1303-1306	
	KQ	Rothenberg, M. et al., "Oligodeoxynucleotides as Anti-Sense Inhibitors of Gene Expression: Therapeutic Implications", <i>J. Natl. Cancer Inst.</i> , 1989, 81, 1539-1544	
	KR	Staunton, D.E. et al., "Primary Structure of ICAM-1 Demonstrates Interaction between Members of the Immunoglobulin and Integrin Supergene Families", <i>Cell</i> , 1988, 52, 925-933	
	KS	Stein, C.A. et al., "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review", <i>Cancer Res.</i> , 1988, 48, 2659-2668	
	KT	Stein, C. et al., "Antisense Oligonucleotides as Therapeutic Agents - Is the Bullet Really Magical?", <i>Science</i> , 1993, 261, 1004-1012	
JF	KU	Staunton et al., "A Cell Adhesion Molecule, ICAM-1, is the Major Surface Receptor for Rhinoviruses", <i>Cell</i> , 1989, 56, 849-853	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS 4380US C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	KV	Staunton et al., "The Arrangement of the Immunoglobulin-like Domains of ICAM-1 and the Binding Sites for LFA-1 and Rhinovirus", <i>Cell</i> , 1990, 61, 243-354	
	KW	Shiohara et al., "Fixed Drug Eruption: Expression of Epidermal Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1)", <i>Arch. Dermatol.</i> , 1989, 125, 1371-1376	
	KX	Tseng, B. et al., "Antisense oligonucleotide technology in the development of cancer therapeutics", <i>Cancer Gene Therapeutics</i> , 1994, 1, 65-71	
	KY	Uhlmann, E. et al., "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chem. Rev.</i> , 1990, 90, 543-584	
	KZ	Weetman et al., "Expression of an intercellular adhesion molecule, ICAM-1, by human thyroid cells", <i>J. Endocrinol.</i> , 1989, 122, 185-191	
	LA	Wegner et al., "Intercellular Adhesion Molecule-1 (ICAM-1) in the Pathogenesis of Asthma", <i>Science</i> , 1990, 247, 456-459	
	LB	Weiss, R., "Upping the Antisense Ante: Scientists bet on profits from reverse genetics", <i>Science News</i> , 1991, 139, 108-109	
	LC	Westerman, P. et al., "Inhibition of expression of SV40 virus large T-antigen by antisense oligodeoxyribonucleotides", <i>Biomed. Biochim. Acta</i> , 1989, 48, 85-93	
	LD	Zhang, R. et al., "Hematopoietic development of <i>vav</i> ^{-/-} mouse embryonic stem cells", <i>Proc. Natl. Acad. Sci.</i> , 1994, 91, 12755-12759	
	LE	Zon, G., "Oligonucleotide Analogues as Potential Chemotherapeutic Agents", <i>Pharm. Res.</i> , 1988, 5, 539-547	
JF	LF	Ohtsuka, I. et al., "Recognition by Restriction Endonuclease <i>EcoRI</i> of Deoxypentanucleotides Containing Modified Sugar Moieties", <i>European Journal of Biochemistry</i> 1984, 139, 447-450.	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	LG	Brill, W. et al., "Synthesis of of oligodeoxynucleoside phosphorodithioates via thioamidites", <i>J. Am. Chem. Soc.</i> , 1989, <i>111</i> , 2321-2322	
	LH	Miller, P.S. et al., "Biochemical and Biological Effects of Nonionic Nucleic Acid Methylphosphonates", <i>Biochemistry</i> , 1981, <i>20</i> , 1874-1880	
	LI	Graham, M.J. et al., "Tritium Labeling of Antisense Oligonucleotides by Exchange with Tritiated Water", <i>Nucleic Acids Res.</i> , 1993, <i>21(16)</i> , 3737-3743.	
	LJ	Agrawal, S., "Functionalization of Oligonucleotides with Amino Groups and Attachment of Amino Specific Reporter Groups", <i>Methods in Molecular Biology</i> , 1994, <i>Vol. 26, Chapter 3</i> , Human Press Inc., Totowa, NJ, 93-120	
	LK	Bochner, B.S. et al., "Adhesion of Human Basophils, Eosinophils, and Neutrophils to Interleukin 1-activated Human Vascular Endothelial Cells: Contributions of Endothelial Cell Adhesion Molecules", <i>J. Exp. Med.</i> , 1991, <i>173</i> , 1553-1556	
	LL	Boutorin, A.S. et al., "Synthesis of alkylating oligonucleotide derivatives containing cholesterol or phenazinium residues at their 3'-terminus and their interaction with DNA within mammalian cells", <i>FEBS Letts.</i> , 1989, <i>254</i> , 129-132	
	LM	Carlos, T. et al., "Human Monocytes Bind to Two Cytokine-Induced Adhesive Ligands on Cultured Human Endothelial Cells: Endothelial-Leukocyte Adhesion Molecule-1 and Vascular Cell Adhesion Molecule-1", <i>Blood</i> , 1991, <i>77</i> , 2266-2271	
	LN	Chen, C. et al., "Internal Duplication and Homology with Bacterial Transport Proteins in the <i>mdr1</i> (P-Glycoprotein) Gene from Multidrug-Resistant Human Cells", <i>Cell</i> , 1986, <i>47</i> , 381-389	
	LO	Chirgwin, J.M. et al., "Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease", <i>Biochemistry</i> , 1979, <i>18</i> , 5294-5299	
V JF	LP	Crooke, S.T. et al., "Progress in the development and patenting of antisense drug discovery technology", <i>Exp. Opin. Ther. Patents</i> , 1996, <i>6</i> , 855-870	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. 10/780,439
		Applicant Philip D. Cook et al.	
		Filing Date 02/17/2004	Group 1637
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
JF	LQ	de Smidt, P.C. et al., "Association of antisense oligonucleotides with lipoproteins prolongs the plasma half-life and modifies the tissue distribution", <i>Nucl. Acids Res.</i> , 1991, 19, 4695-4700	
	LR	Gmeiner, W.H et al., "Development of and Efficient Oligonucleotide Derivation Protocol", <i>Bioorg. & Med. Chem. Letts.</i> , 1991, 1, 487-490	
	LS	Hotoda, H. et al., "Biologically Active Oligodeoxyribonucleotides - II: Structure Activity Relationships of Anti-HIV-1 Pentadecadeoxyribonucleotides Bearing 5'-End-Modifications", <i>Nucleosides & Nucleotides</i> , 1994, 13, 1375	
	LT	Ing, N.H. et al., "In vivo transcription of a progesterone-responsive gene is specifically inhibited by a triplex-forming oligonucleotide", <i>Nucl. Acids Res.</i> , 1993, 21, 2789	
	LU	Kishimoto, T.K. et al., "The Leukocyte Integrins", <i>Adv. Immunol.</i> , 1989, 46, 149-182	
	LV	Iyer, R. al., "3H-1,2-Benzodithiole-3-one 1,1-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates", <i>J. Am. Chem. Soc.</i> , 1990, 112, 1253-1254	
	LW	Reed, M.W. et al., "Acridine- and Cholesterol-Derivatized Solid Supports for Improved Synthesis of 3'-Modified Oligonucleotides", <i>Bioconjugate Chem.</i> , 1991, 2, 217	
✓	LW1	BLUM, et al., "Inhibition of hepatitis B virus by antisense oligodeoxynucleotides," <i>Lancet</i> 337:1230 (1991).	
JF	LW2	LETSINGER, et al., "Cholesteryl conjugated oligonucleotides: synthesis properties, etc." <i>Proc. Natl. Acad. Sci.</i> (1989) 86:6553-6556.	
EXAMINER /Jeffrey Fredman/		DATE CONSIDERED 07/18/2006	

Form PTO-1449 Modified				Docket No. ISIC0006-102 (ISIS 4380US C1)		Serial No. 10/780,439	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Applicant Philip D. Cook et al.			
				Filing Date 02/17/2004		Group 1637	
U.S. Department of Commerce Patent and Trademark Office							
U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
JF	LX	3,687,808	08/29/82	Merigan, Jr. et al	195	28	
	LY	4,910,300	03/20/90	Urdea et al.	536	287	
	LZ	4,958,013	09/18/90	Letsinger	536	27	
	MA	5,466,786	11/14/95	Buhr et al.	536	26.26	
	MB	5,015,733	05/14/91	Smith et al.	536	23	
	MC	5,108,921	04/28/92	Low et al.	435	240.1	
	MD	5,470,967	11/28/95	Huie et al.	536	24.3	
	ME	5,578,718	11/26/96	Cook et al.	536	27.21	
	MF	5,284,931	02/08/94	Springer et al.	424	85.8	
✓	MG	5,514,788	05/07/96	Bennett et al.	536	23.1	
JF	MH	5,580,969	12/03/96	Hoke et al.	536	24.5	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation YES NO		
JF	MI	EP0251283	01/07/88	EPO	X		
JF	MJ	WO 86/02929	05/22/86	PCT	X		
JF	MK	WO 90/10448	09/20/90	PCT	X		
JF	MM	WO 89/02931	04/06/89	PCT	X		
JF	MN	WO 92/05186	04/02/93	PCT	X		
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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
JF	MO	5,585,479	12/17/96	Hoke et al.	536	24.5	
	MP	5,596,090	01/21/97	Hoke et al.	536	24.5	
	MQ	4,689,320	08/25/87	Kaji	514	44	
	MR	4,806,463	02/21/89	Goodchild et al.	435	5	
	MS	5,034,506	7/1991	Summerton et al.	528	391	
	MT	5,087,617	02/11/92	Smith	514	44	
	MU	5,098,890	03/24/92	Gerwirtz et al.	514	44	
	MV	5,135,917	08/04/92	Burch	514	44	
	MW	5,138,045	08/11/92	Cook et al.	536	27	
↓	MX	5,166,195	11/24/92	Ecker	514	44	
JF	MY	4,743,535	5/1988	Carrico	435	6	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation YES NO		
JF	MZ	WO 91/00243	06/26/90	PCT	X		
↓	NA	WO 91/15500	10/17/91	PCT	X		
↓	NB	WO 91/14696	11/03/91	PCT/US91/02224	X		
JF	NC	WO 96/02556	02/01/96	PCT	X		
EXAMINER /Jeffrey Fredman/				DATE CONSIDERED 07/18/2006			

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. ISIS0006-102 (ISIS-4380US.C1)		Serial No. 10/780,439	
				Applicant Philip D. Cook et al.			
				Filing Date 02/17/2004		Group 1637	
U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
JF	ND	5,194,428	03/16/93	Agrawal et al.	514	44	
	NE	5,218,105	06/08/93	Cook et al.	536	25.31	
	NF	5,242,906	09/07/93	Pagano et al.	514	44	
	NG	5,264,423	11/23/93	Cohen et al.	514	44	
	NH	5,276,019	01/04/94	Cohen et al.	514	44	
	NI	5,286,717	02/15/94	Cohen et al.	514	44	
	NJ	5,459,255	10/17/95	Cook et al.	536	27.13	
	NK	5,510,239	04/23/96	Baracchini, Jr. et al.	435	6	
	NL	5,272,263	12/1993	Hession	536	23.5	
JF	NM	5,378,825	01/03/95	Cook et al.	536	25.34	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation YES NO		
JF	NN	WO 89/12060	12/14/89	PCT	XX		
JF	NO	WO 90/13300	11/15/90	PCT	XX		
JF	NP	WO 95/06659	03/09/95	PCT	XX		
EXAMINER /Jeffrey Fredman/				DATE CONSIDERED 07/18/2006			

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIC0006-102 (ISIS-4380US.C1)	Serial No. Not Assigned
	Applicant Philip D. Cook et al.	
	Filing Date 02/17/2004	Group 1637

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
JF	NQ	5,212,295	05/18/93	Cook	536	26.7
	NR	5,223,618	06/29/93	Cook et al.	544	276
	NS	5,386,023	01/31/95	Sanghvi et al.	536	25.3
	NT	5,457,191	10/10/95	Cook et al.	536	27.13
	NU	5,506,351	04/09/96	McGee	536	55.3
	NV	5,521,302	05/28/96	Cook	536	25.31
	NW	5,539,082	07/23/96	Nielsen et al.	530	300
↓	NX	5,541,307	07/30/96	Cook et al.	536	23.1
JF	NY	5,554,746	09/10/96	Ravikumar et al.	540	200

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER	/Jeffrey Fredman/	DATE CONSIDERED	07/18/2006
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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. IS100006-102 (ISIS-4380US.C1)		Serial No. 10/780,439	
				Applicant Philip D. Cook et al.			
				Filing Date 02/17/2004		Group 1637	

U. S. PATENT DOCUMENTS						
Examiner Initial		Document No.	Date	Name	Class	Subclass
JF	NZ	5,571,902	11/05/96	Ravikumar et al.	536	22.1
	OA	5,587,361	12/24/96	Cook et al.	514	44
	OB	5,587,469	12/24/96	Cook et al.	536	23.1
	OC	5,587,470	12/24/96	Cook et al.	536	23.1
	OD	5,591,623	01/07/97	Bennett et al.	435	240.2
	OE	5,599,797	02/04/97	Cook et al.	514	44
	OF	5,602,240	02/11/97	De Mesmaecker et al.	536	22.1
	OG	5,608,046	03/04/97	Cook et al.	536	23.1
✓	OH	5,610,289	03/11/97	Cook et al.	536	25.34
JF	OI	5,618,704	04/08/97	Sanghvi et al.	435	91.5

FOREIGN PATENT DOCUMENTS						
Examiner Initial		Document No.	Date	Country	Translation YES NO	

EXAMINER /Jeffrey Fredman/	DATE CONSIDERED 07/18/2006
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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIC0006-102 (ISIS-4380US C1)	Serial No. 10/780,439
	Applicant Philip D. Cook et al.	
	Filing Date 02/17/2004	Group 1637

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
JF	OJ	5,623,070	04/22/97	Cook et al.	536	27.6
	OK	5,670,633				
	OL	5,677,437	10/14/97	Teng et al.	536	23.1
	OM	07/558,806	07/27/90	Cook et al.		
	ON	07/463,358	01/11/90	Cook et al.		
	OP	07/782,374	10/24/91	Manoharan et al.		
	OQ	08/039,979	03/30/93	Sanghvi et al.		
	OR	08/039,846	03/30/93	Teng et al.		
V	OS	08/317,289	10/03/94	Sanghvi et al.		
JF	OT	08/383,666	02/03/95	Cook et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. ISIC0006-102 (ISIS-4380US.C1)		Serial No. 10/780,439	
				Applicant Cook et al.			
				Filing Date 02/17/2004		Group 1637	
U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
JF	OU	4,605,735	08/12/86	Miyoshi et al.	536	27	
↓	OV	4,835,263	05/30/89	Nguyen et al.	536	27	
	OW	4,904,582	02/27/90	Tullis	3435	6	
JF	OWL	5,324,654	06/1994	Bredesen	435	240.2	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation YES NO		
EXAMINER				DATE CONSIDERED			
/Jeffrey Fredman/				07/18/2006			